Practitioner's Docket No.: 802 004 CON

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Patrick T. PRENDERGAST and Paul ARMSTRONG

Serial No.: Continuation of USSN 09/627,641 filed July 28, 2000

Filed: July 2, 2003

For:

DITHIOLTHIONE COMPOUNDS FOR THE TREATMENT OF

NEUROLOGICAL DISORDERS AND FOR MEMORY ENHANCEMENT

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 2, 2003 under "EXPRESS MAIL" mailing label number EV 30642 6700 US.

Janet M. Stevens

#### INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. These references were cited during prosecution of parent application U.S. Ser. No. 09/627,641, and copies of each of the references can be found in the PTO file for the parent application.

The above information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that these listed references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Respectfully submitted,

July 2, 2003

Kevin C. Brown Reg. No. 32,402

KCB:jms

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Form PTO-1449				Complete if Known		
US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				Application Number		
				Filing Date		
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT			First Named Inventor	Patrick T. PRENDERGAST	
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Sheet	1	of	3	Attorney Docket No.	802_004 CON	

### U.S. PATENT DOCUMENTS

Exam. Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	5,932,596	8/1999	Shih, et al.			
	5,849,782	12/1998	Beal			
	5,691,338	11/1997	Prochaska et al.			
	5,686,436	11/1997	Van Dyke			
	5,668,117	9/1997	Shapiro			
	3,994,923	11/1976	Miles, Peter et al.			

## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub Class	Translation	Abstract
95/01096	1/1995	wo				
97/03055	1/1997	wo				
199650598 B2	2/1999	AU				
00/31060	6/2000	wo				
98/27970	7/1998	wo				
0 236 929A	9/1987	EP				
0 641 792A	3/1995	ЕР				
94/16563A	8/1994	wo				
62187410	8/1987	JP				
7112978	5/1995	JP				
4343592	6/1995	DE				

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Sheet	2	of	3	Attorney Docket No.	802 004 CON		

# OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages etc.)

	Benson, A., "Oltipraz: a laboratory and clinical review," <u>J. Cell Biochem.</u> , Supp. 17F, pp. 278-91 (1993)
	Langoueet, S., et al., "Inhibition of Human Cytochrome P450 Enzymes by 1,2-Dithiole-3-thione, Oltipraz and Its Derivatives, and Sulforaphane," Chem. Res. Toxicol., Vol. 13(4), pp. 245-252 (2000)
	Fleury, M., "Action mechanism of an antischistosomal drug developed by Rhone-Poulenc Sante: 35972 RP, Oltipraz," <u>Actual. Chim.</u> , Vol. 3, pp. 123-8 (1990)
	 Curphey, T., et al., "A new synthesis of 3H-1,2-dithiole-3-thiones," <u>Tetrahedron Lett.</u> , Vol. 34, pp. 3703-6 (1993)
	Maxuitenko, Y., et al., "Evaluation fo the post-initiation effects of oltipraz on aflatoxin B1-induced preneoplastic foci in a rat model of hepatic tumorigenesis," <u>Carcinogenesis</u> , Vol. 14, pp. 2423-5 (1993)
<u>.</u>	Martens, T., et al. "Electrochemical reduction of substituted isothiazole-3-thiones in aprotic media," <u>J. Chem. Soc.</u> , Perkin Trans. 2, pp. 1763-8 (1991)
	Vaccher, C., et al., "Electro-organic synthesis and x-ray crystal structure of the novel complex 2,7-dimethyl-6,8-bis(methylthio)pyrrolo[1,2-a]pyrazinium triiodomercurate(II)," <u>J. Chem. Soc.</u> , Perkin Trans. 2, pp. 391-4 (1989)
	Largeron, M., et al., "Studies of the reaction of substituted 1,2-dithiole-3-thiones and -3-ones with sodium cynatide in acetonitrile," J. Heterocycl. Chem., Vol. 25, pp. 1223-5
	Largeron, M., et al., "Reactivity of substituted 1,2-dithiole-3-thiones with sodium ethanethiolate: a conventient route toa novel heterocycle," <u>Tetrahedron</u> , Vol. 43, pp. 3421-8 (1987)
	Fleury, M., et al., "Studies of the reaction of 1,2-dithiole-3-thiones with nucleophiles," <u>Tetrahedron</u> , Vol. 41, pp. 3705-15 (1985)
	Largeron, M., et al., "Study of the reductive metabolism pathway of 4-methyl-5-(2-pyrazinyl)-1,2-dithiole-3-thione. An electrochemical approach." <u>Tetrahedron</u> , Vol. 42, pp. 409-15 (1986)
	 Van Dyke, K., "The possible role of peroxynitrite in Alzheimer's disease: a simple hypothesis that could be tested more thoroughly," Med Hypotheses 1997 May; 48(5): 375-80
	 Smith, Mark A., et al., "Iron accumulation in Alzheimer disease is a source of redox-generated free radicals," <a href="Proc.">Proc.</a> <a href="Matl. Acad. Sci. USA">Natl. Acad. Sci. USA</a> , Vol. 94, pp. 9866-9868 (1997)
	Ansher, S., et al., "Biochemical Effects of Dithiolthiones", Fd. Chem. Toxic., Vol. 24, No. 5, pp. 405-415 (1986)
	Prochaska, H., et al., "Elevation of Glutathione Levels by Phase II Enzyme Inducers: Lack of Inhibition of Human Immunodeficiency Virus Type 1 Replication in Chronically Infected Monocytoid Cells." Molecular Pharmacology, Vol. 45, pp. 916-921 (1993)
	 Smith, M., et al., "Widespread Peroxynitrite-Mediated Damage in Alzheimer's Disease," <u>The Journal of Neuroscience</u> , Vol. 17(8), pp. 2653-2657 (1997)
	Behl, C., et al., "Hydrogen Peroxide Mediates Amyloid β Protein Toxicity," Cell, pp. 817-827, (1994)

Form PTO-1449  US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				Complete if Known											
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Sheet	3	of	3	Attorney Docket No.	802_004 CON										
Communications, Vol. 200, No.  Good, P., et al., "Selective Accurding Disease: A Laser Microprobe (L. Drukarch, B., et al., "Drug treatm 1023-1031 (2000)				amulation of Aluminum and Iron in the Neurofibrillary Tangles of Alzheimer's LAMMA) Study," <u>Annals of Neurology</u> , Vol. 31, No. 3, pp. 286-292 (1992) ment of Parkinson's disease. Time for Phase II." Biochemical Pharmacology, 59/9, ecive effects of alpha-lipoic acid and its positively charged amide analog", Free											
										Dringen, Ralf et al., "Anethole dithiolethione, a putative neuroprotectant, increases intracellular and extra glutathione levels during starvation of cultured astroglial cells", Naunyn-Schmiedeberg's Arch. Pharmac 616-622 (1998)  Drukarch, Benjamin, et al., "Anethole dithiolethione prevents oxidative damage in glutathione-depleted a Eur. J. Pharmacol. 329 (2/3), 259-262 (1997)					
	Ranga	n et al., Briti	sh Medical B	ulletin, Vol. 49, No. 3, pp. 700	0-718, 1993										
	Stoof,	et al., Europ	ean Journal o	f Pharmacology, Vo 375, No. 1-3, pp. 75-86, June 1999											

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